INTERNATIONALSEARCHREPORT

International application No.

PCT/JP2004/016169

A. CLASSIFICATIONOFSUBJECTMATTER

Int.Cl⁷ HOIL 29/786, HOIL 21/336, HOIL 21/768, HOIL 21/288, HOIL 21/3205, HO5B 33/10, HO5B 33/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ H01L 29/786, H01L 21/336, H01L 21/768, H01L 21/288, H01L 21/3205, H05B 33/10, H05B 33/14

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Japanese Utility Model Gazette 1922-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2004, Japanese Registered Utility Model Gazette 1994-2004, Japanese Gazette Containing the Utility Model 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2003-98548 A(HITACHI, LTD.,) 2003.04.03, whole document, Figs.1-7(Family:none)	1-2,5-6,8-9 3-4,7,10, 12-13
A	indeed decimand, right / (ruming, mane)	11
. Y	JP 2002-49333 A	3-4,7
•	(SEMICONDUCTOR ENERGY LABORATORY CO., LTD.)	
	2002.02.15, whole document, Figs.1-21	
	& US 2002/0044111 A1	
Y ·	JP 2003-506886 A	10
	(PATTERNING TECHNOLOGY LIMITED)	
	2003.02.18, whole document, Figs.1-27	
	& WO 2001/011426 A1	,
•	& GB 2352688 A	

V	Further documents are listed in the continuation of Box C.	See patent family annex.		
*	Special categories of cited documents:	"T" later document published after the international filing date or		
"A"	document defining the general state of the art which is not considered to be of particular relevance			
"E"	earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an		
"L"	document which may throw doubts on priority claim(s) or which			
	is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is		
"0"	document referring to an oral disclosure, use, exhibition or other means	combined with one or more other such documents, such combination being obvious to a person skilled in the art		
"P"	document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family		
Date of the actual completion of the international search Date of mailing of the international search		Date of mailing of the international search report		
22.11.2004		07.12.2004		
Nam	e and mailing address of the ISA/JP	Authorized officer 4M 3123		
	Japan Patent Office	Sonoko Miyazaki		
3-4	-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Telephone No. +81-3-3581-1101 Ext. 3462		

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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 1997/043689 A1(SEIKO EPSON CORPORATION) 1997.11.20, page27-28, Figs.14-16 & EP 0855614 A1	10
	& US 2002/0179906 A1	
Y.	JP 7-297404 A(KABUSHIKI KAISHA TOSHIBA) 1995.11.10, whole document, Figs.1-6(Family:none)	12
. Y	JP 4-56168 A(STANLEY ELECTRIC CO., LTD.) 1992.02.24, whole document, Fig.1(Family:none)	13
A	JP 2003-258226 A(CANON KABUSHIKI KAISHA) 2003.09.12, wlole document, Figs.1-28(Family:none)	11
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